[Continued on next page]

(54) Title: VESSEL SEGMENTATION USING VESSELNESS AND EDGENESS
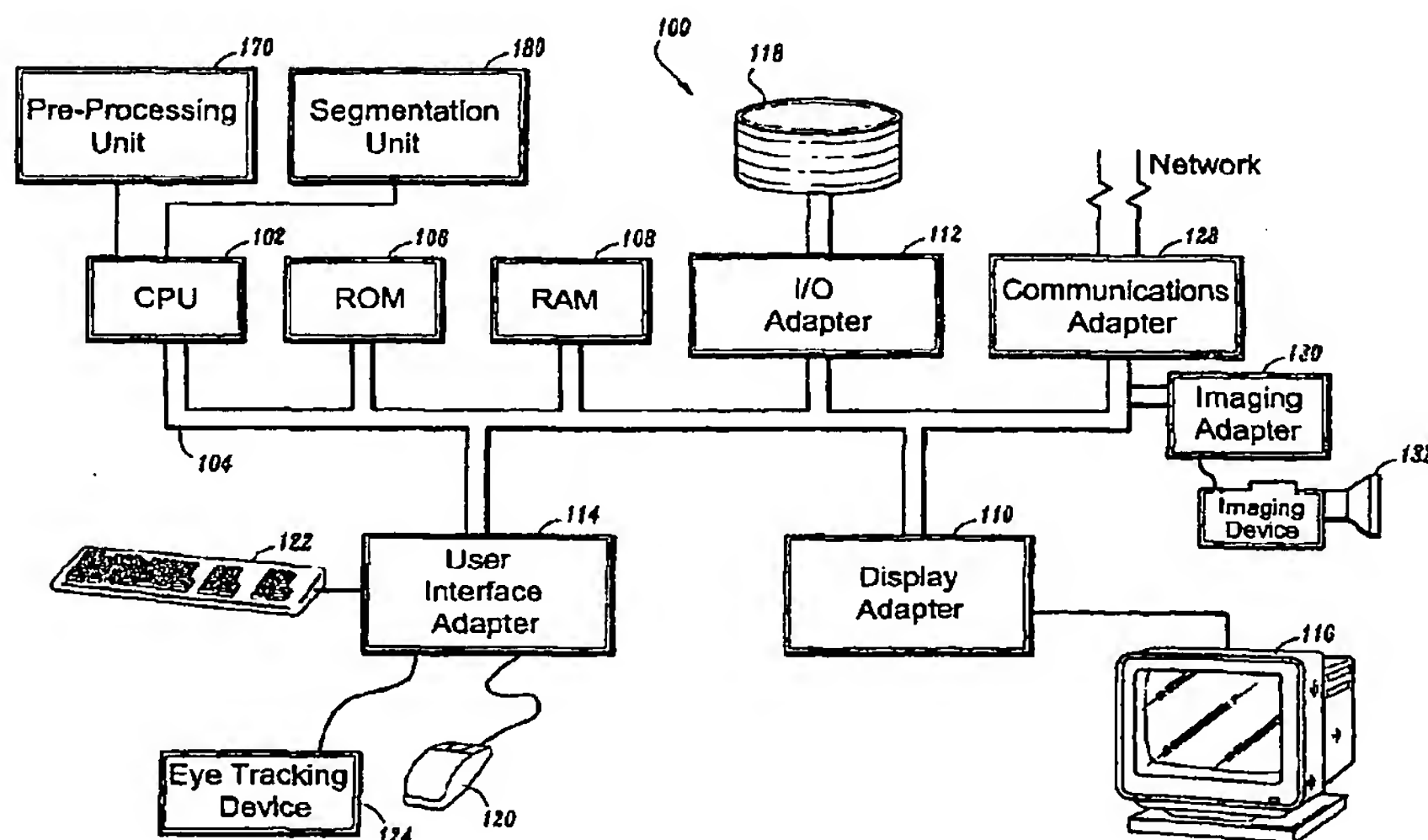
(57) Abstract: A system (100) and corresponding method for vessel segmentation are provided, the system having an adapter (112, 128, 130) for receiving image data, a processor (102) in signal communication with the input adapter, a pre-processing unit (170) in signal communication with the processor for pre-processing the received image data, and a vessel segmentation unit (180) in signal communication with the processor for segmenting vessels using pre-processed data; and the corresponding method including receiving image data, pre-processing the received data, and segmenting vessels responsive to the pre-processed data.

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) **Date of publication of the international search report:**
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.